

# Recovery Plan Action Status

Plan Name: Final Recovery Plan for the Western Snowy Plover

Plan Status: Final

Plan Date: 24-Sep-07

Lead Agency: USFWS

Lead Office: Arcata Fish And Wildlife Office  
(507)  
822-7201 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Western snowy plover (Charadrius alexandrinus nivosus)	1	1.1	Annually monitor abundance, population size and distribution at breeding and wintering locations.	Ongoing Current	FY 2000 - FY 2004		Research Institutions, Land Management Agencies and Organizations, Cities, Counties	Management: Population Monitoring	Volunteer	Assumes 157 window survey days, with 2 biologists per location. Action needed to determine fulfillment of recovery criteria
Western snowy plover (Charadrius alexandrinus nivosus)	1	1.2	Develop and implement a program to monitor productivity and annual survival	Ongoing Current	FY 2000 - FY 2004		Research Institutions, Land Management Agencies and Organizations, Cities, Counties	Management: Population Monitoring	Species Expert	Total cost is not yet determined. Action needed to determine fulfillment of recovery criteria. Depends partly on completion of 4.3.2 and 4.3.3
Western snowy plover (Charadrius alexandrinus nivosus)	1	1.3	Develop and implement a program to monitor habitat condition and threats at all breeding and wintering sites.	Ongoing Current	FY 2000 - FY 2004		Research Institutions, Land Management Agencies and Organizations	Management: Habitat Maintenance and Manipulation	Species Expert	Assumes initial cost for development of standardized monitoring program and subsequent monitoring for 155 sites.
Western snowy plover (Charadrius alexandrinus nivosus)	3	1.4	Develop and implement training and certification programs for western snowy plover survey coordinators and observers	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations	Management: Population Monitoring	Internal Technical Assistance, Species Expert	Assumes initial cost to develop program and subsequent implementation
Western snowy plover (Charadrius alexandrinus nivosus)	3	1.5	Improve submittal system for monitoring data to ensure consistent reporting	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Point Reyes Bird Observatory, Bird Banding Laboratory, USGS Biological Resources Division, Land Management Agencies and Organizations	Management: Population Monitoring	Internal Technical Assistance, Species Expert	Assumes initial cost to develop submittal and reporting system and subsequent annual review

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	1.6	Assess and evaluate new breeding wintering and migration areas for threats and management needs and update lists as data become available	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Point Reyes Bird Observatory, Land Management Agencies and Organizations	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Depends on results of annual surveys and monitoring
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	1.7	Coordinate monitoring of snowy plovers and California least terns to minimize disturbance	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, U.S. Geological Survey, Biological Resources Division, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control), California Department of Fish and Game, United States Air Force , United States Marine Corps , U.S. Navy, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty)	Management: General	Internal Technical Assistance, Species Expert	Coordinate at biannual pre- and post-season California least tern monitoring meeting. Assumes 2 meetings at 2 days per meeting with 9 agency staff attending.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	1.8	Develop a post-delisting monitoring plan	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations, Cities, Counties	Work type not yet selected	Labor type not yet selected	Total cost is not yet determined.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	1	2.1.1	Develop a prioritized list of wintering and breeding sites where natural coastal processes need protection and /or enhancement.	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations, Cities, Counties	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Assumes time to evaluate sites and development of the prioritized list

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Western snowy plover (Charadrius alexandrinus nivosus)	1	2.1.2	Identify and implement mechanism to protect, enhance or restore natural coastal processes	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations, Cities, Counties	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Incorporate into ongoing management in action 3. Costs will depend on mechanisms identified and carried out.
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.2.1.1	Develop and implement prioritized removal and control for introduced beachgrass and other non-native vegetation.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, U.S.Army Corps of Engineers, Cities, Counties	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Total cost is not yet determined. App C identifies 86 sites. Costs range for mechanical, manual and/or chemical control? \$1,000 to \$87,000/hectare (\$400 to \$35,000 per acre).
Western snowy plover (Charadrius alexandrinus nivosus)	2	2.2.1.2	Replace exotic dune plants with native dune vegetation where it is likely to improve habitat.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, U.S.Army Corps of Engineers, Cities, Counties	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Estimated cost of planing native vegetation: \$30,000 per hectare (\$12,000 per acre). Number of sites to be determined.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.2.2.1	Evaluate breeding and wintering sites to determine whether dredged materials may be used to enhance for create nesting habitat	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, U.S.Army Corps of Engineers, Cities, Counties	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Assumes cost to evaluate each site.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.2.2.2	Develop and implement plans to use dredged materials may be used to enhance of create nesting habitat.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, U.S.Army Corps of Engineers, Cities, Counties	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Cost dependent on number of sites identified in 2.2.2.1.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.2.3.1	Identify sites where beach nourishment may be effective in creating and enhancing habitat	Ongoing Not Current	Prior to FY 1995		Land Management Agencies and Organizations, U.S.Army Corps of Engineers, Cities, Counties	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Assumes cost to evaluate each site.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	2.2.3.2	Develop and implement beach nourishment plans for site identified in action 2.2.3.1	Not Started			Land Management Agencies and Organizations, U.S.Army Corps of Engineers, Cities, Counties	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Cost dependent on number of sites identified in 2.2.3.1 and outcome of 4.1.1
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	1	2.2.4	Create, manage and enhance coastal ponds and playas for breeding habitat	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hayward Area Recreation and Park District, California Department of Fish and Game, Land Management Agencies and Organizations, U.S.Army Corps of Engineers, National Aeronautics and Space Administration - Ames Research Center, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty)	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance, Species Expert	Total cost is not yet determined. App C identifies 15 sites. Costs dependent on type and area of restoration.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	1	2.3.1.1.1	Seasonally close areas used by breeding snowy plovers	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties, California Coastal Conservancy	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 81 sites. Assumes cost to close these sites.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	1	2.3.1.1.2	Fence areas used by breeding snowy plovers	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties, California Coastal Conservancy	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 64 sites. Cost assumes 1 kilometer fencing required per site at a cost of \$5,900 per kilometer.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	1	2.3.1.1.3	Post signs in area used by breeding snowy plovers	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties, California Coastal Conservancy	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 65 sites. Cost dependent on number of signs needed at each site, but assumes cost for installation and a minimum of 4 signs at \$20 per sign.

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Western snowy plover (Charadrius alexandrinus nivosus)	1	2.3.1.2.1	Evaluate effects of existing and planned access at all breeding and wintering locations and any new locations identified.	Ongoing Not Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Research: Ecosystem Studies	Internal Technical Assistance, Species Expert	App C identifies 81 sites. Assumes cost to conduct use survey for the identified sites.
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.3.1.2.2	Develop and implement plans to minimize adverse access effects.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs depend on outcome of 2.3.1.2.1
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.3.2	Implement and enforce pet restrictions	Ongoing Not Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 120 sites. Assumes staff time to implement and enforce restrictions at the identified sites
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.3.3	Annually review recreational activities and develop and implement plans to prevent disturbance from disruptive recreational activities at breeding and wintering sites	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes staff cost to develop and implement plans at each site annually.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.3.4	Prevent driftwood removal through posting of signs	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 26 sites. Cost dependent on number of signs needed at each site, but assumes cost for installation and an minimum of 4 signs at \$20 per sign.
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.3.5	Prevent disturbance, mortality and habitat degradation by prohibiting or restricting off-road vehicles and beach-raking machines.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 101 sites. Assumes staff time for monitoring on weekends.

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Western snowy plover (Charadrius alexandrinus nivosus)	3	2.3.6	Implement restrictions on horsebackriding through annual coordination	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 72 sites. Assumes staff time to implement restrictions.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.3.7	Implement and enforce restrictions on livestock through annual coordination	Unknown	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	App C identifies 18 sites. Assumes staff time to implement restrictions.
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.3.8.1	Determine enforcement needs and provide sufficient wardens, agents or officers to enforce protective measures in breeding and wintering habitat.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Law Enforcement Division, Land Management Agencies and Organizations, Cities, Counties	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Cost will depend on identified enforcement needs.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.3.8.2	Develop and implement training programs for enforcement personnel to improve enforcement of regulations and minimize effects of enforcement.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Law Enforcement Division, Land Management Agencies and Organizations, Cities, Counties	Management: General	Internal Technical Assistance, Species Expert	Annual training cost estimate \$8,000 per year.
Western snowy plover (Charadrius alexandrinus nivosus)	2	2.3.9	Develop and implement a program to annually coordinate with local airports, aircraft operations regarding minimum altitude requirements	Ongoing Not Current	Prior to FY 1995		U.S. Federal Aviation Administration, U.S. Fish and Wildlife Service, Law Enforcement Division, Land Management Agencies and Organizations, Cities, Counties	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes staff costs per recovery unit to compile list and notify aircraft operations and facilities.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.4.1.1	Implement and enforce anti-littering regulations.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Incorporate into ongoing management and Action 3.

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Western snowy plover (Charadrius alexandrinus nivosus)	3	2.4.1.2	Evaluate the effects of current litter and garbage management on predation at breeding and wintering sites.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Assumes evaluation time per site
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.4.1.3	Develop and implement garbage and litter management plans where litter and garbage contribute to predation	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs will depend on 2.4.12 and plans developed.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.4.2	Annually identify and remove predator perches and unnatural habitat attractive to predators	Ongoing Not Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes staff time to complete action each year.
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.4.3	Erect predator exclosures to reduce egg predation and improve productivity	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	App C identifies 53 sites. Assumes cost per unit installation
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.4.4	Evaluate the need for predator removal and implemnt where warranted and feasible.	Ongoing Current	Prior to FY 1995		U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control), California Department of Fish and Game, Land Management Agencies and Organizations, Cities, Counties	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Total cost is not yet determined. App C identifies 61 sites for additional predator control. Costs dependent on assessment of needs and feasibility
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.4.5	Remove bird and mammal carcasses in nesting areas	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Total cost is not yet determined.

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Western snowy plover (Charadrius alexandrinus nivosus)	1	2.5.1	U.S.Fish and Wildlife Service biologists should participate in Area Committees responsible for maintaining the Area Contingency Plans for the Pacific Coast to facilitate the updating of spill response plans to include protection of western snowy plover	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division	Management: General	Internal Technical Assistance, Species Expert	Assumes staff time from the six ES offices responsible for coastlines of CA, OR and WA
Western snowy plover (Charadrius alexandrinus nivosus)	1	2.5.2	Assign monitors to beaches that are inhabited by western snowy plovers to protect western snowy plovers from injury during spill responses	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, United States Coast Guard , Land Management Agencies and Organizations, Cities, Counties	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes cost of two weeks of monitoring for five incidents per year
Western snowy plover (Charadrius alexandrinus nivosus)	2	2.6	Compensate the loss of plover breeding and wintering habitat associated with recovery efforts for other sensitive species.	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Land Management Agencies and Organizations, U.S.Army Corps of Engineers, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty)	Management: General	Internal Technical Assistance, Species Expert	Cost dependent on effectiveness of minimizing habitat loss.
Western snowy plover (Charadrius alexandrinus nivosus)	3	2.7.1	Investigate feasibility and methods for discouraging pinniped use of nesting areas	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. National Marine Fisheries Service (NOAA Fisheries), Land Management Agencies and Organizations, U.S. Navy	Management: Depredation Control	Internal Technical Assistance, Species Expert	Assumes staff time to investigate



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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	2.7.2	Identify areas where pinniped use is negatively affecting nesting and implement any appropriate methods	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. National Marine Fisheries Service (NOAA Fisheries), Land Management Agencies and Organizations, U.S. Navy	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs dependent on number of sites identified and methods determined in 2.7.1
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	1	3.1	Establish and maintain snowy plover working groups for each of the six recovery units.	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Land Management Agencies and Organizations, Cities, Counties, Private Landowners (except HARD, MPOSD & TNC)	Management: General	Internal Technical Assistance, Species Expert	Essential mechanism to advance plover recovery. Includes biannual meeting costs and staff costs to establish new working groups.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.1	Ensure that section 7 consultations contribute to Pacific coast western snowy plover consultation	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Federal Agencies	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes staff time for annual evaluation
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	2	3.2	Develop and implement regional participation plans for each of the six recovery units	Ongoing Not Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, Land Management Agencies and Organizations	Management: General	Internal Technical Assistance, Species Expert	Assumes staff cost to develop and implement participation plans

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.3.1	Develop and implement management plans for Federal lands	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, National Park Service, U.S. Forest Service, United States Air Force , United States Marine Corps , U.S; Army, U.S.Army Corps of Engineers, National Aeronautics and Sapce Administration - Ames Research Center, U.S. Navy, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty)	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Implementation cost dependent on content of plans developed.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.3.2	Develop and implement management plans and Habitat Conservation Plans on State wildlife areas, State ecological reserves and State beaches	Ongoing Not Current	Prior to FY 1995		California Department of Parks and Recreation, Oregon Department of Fish and Wildlife, California Department of Fish and Game, Oregon Parks and Recreation Department, Washington Dept of Fish and Wildlife, Washington Department of Natural Resources, Washington State Parks and Recreation Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes cost for each recovery unit to assist in development. Implementation cost to be determined.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.4	Develop and implement Habitat Conservation Plans or other management plans for sites owned by local governments or private landowners	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, East Bay Regional Park District, Midpeninsula Regional Open Space District, Port of Oakland, Hayward Area Recreation and Park District, Monterey Peninsula Regional Park District, Port of Grays Harbor, San Dieguito River Park Joint Powers Authority, The Nature Conservancy, Land Management Agencies and Organizations, Cities, Counties, Private Landowners (except HARD, MPOSD & TNC)	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes cost for each recovery unit to assist in development. Implementation cost to be determined.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	2	3.5	Provide technical assistance to local governments in developing and implementing local land use protection measures through periodic workshops	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Oregon Department of Fish and Wildlife, Oregon Department of Land Conservation and Development, California Department of Fish and Game, Oregon Parks and Recreation Department, California State Coastal Commission, Cities, Counties, California Coastal Conservancy, Washington Dept of Fish and Wildlife, Washington Department of Natural Resources, Washington State Parks and Recreation Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Estimated at 2 workshops per recovery unit at a cost of \$ (Patti Carol in RO)
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.6	Develop and implement cooperative programs and partnerships with the California State Coastal Commission, the Oregon Department of Land Conservation and Development, the Washington State Parks and Recreation Commission, The Oregon Parks and Recreation Department, the California Department of Parks and Recreation and The Oregon Department of Fish and Wildlife	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Oregon Department of Fish and Wildlife, Oregon Department of Land Conservation and Development, Oregon Parks and Recreation Department, California State Coastal Commission, Washington State Parks and Recreation Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs may vary from year to year based on identified program needs.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.7	Obtain long-term agreements with private landowners	Unknown	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Oregon Department of Fish and Wildlife, California Department of Fish and Game, Land Management Agencies and Organizations, Private Landowners (except HARD, MPOSD & TNC), Washington Dept of Fish and Wildlife, Washington State Parks and Recreation Commission	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes staff time to facilitate 6 agreements per year per recovery unit. App C identifies 72 sites.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.8	Identify and protect habitat available for acquisition	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Land Management Agencies and Organizations, California Coastal Conservancy, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty)	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	3.9	Ensure that any section 10(a)(1)(B) and section 7(a)(2) permits contribute to Pacific coast western snowy plover conservation	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Federal Agencies	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Assumes staff time for annual evaluation

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.1	Identify, prioritize and carry out studies on the effects of human recreation on western snowy plovers.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Point Reyes Bird Observatory, U.S. Geological Survey, Biological Resources Division, Land Management Agencies and Organizations	Research: Ecosystem Studies	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs dependent on research needs identified.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	2	4.1.1	Evaluate effectiveness of habitat restoration by removal of introduced beachgrass and identify additional studies necessary	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations, California Coastal Conservancy	Research: Ecosystem Studies	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Depends on the number and location of sites as well as the temporal duration of the restoration project.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.1.2	Evaluate the impacts and potential benefits of past and ongoing beach nourishment activities and identify and carry out any additional studies necessary	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations, U.S. Army Corps of Engineers, Cities, Counties	Research: Ecosystem Studies	Internal Technical Assistance, Species Expert	Total cost is not yet determined.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.11	Revise the population viability analysis when sufficient additional information is available.	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Point Reyes Bird Observatory, U.S. Geological Survey, Biological Resources Division, Bird Banding Laboratory, USGS Biological Resources Division	Research: Demographic Studies	Species Expert	Assumes cost to conduct modeling.

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Western snowy plover (Charadrius alexandrinus nivosus)	2	4.2.1	Develop higher-efficiency nest exclosures	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Compare new exclosures with current ones to determine effects on snowy plovers
Western snowy plover (Charadrius alexandrinus nivosus)	2	4.2.2	Develop California least tern exclosures that prevent harm to snowy plovers	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Research Institutions, California Department of Fish and Game, United States Marine Corps , Land Management Agencies and Organizations	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs specific to sites with California least tern exclosures. Estimated cost for materials (fencing / posts): \$7 per linear foot (\$23 per meter).
Western snowy plover (Charadrius alexandrinus nivosus)	3	4.2.3	Identify, prioritize and carry out investigations on control of predators	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control), California Department of Fish and Game, Land Management Agencies and Organizations, Cities, Counties, Private Landowners (except HARD, MPOSD & TNC), U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty)	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Cost dependent on number and types of studies identified

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.2.4	Investigate predator management at the landscape level.	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control), Land Management Agencies and Organizations, Cities, Counties, Private Landowners (except HARD, MPOSD & TNC), U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty)	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs dependent on number and types of studies identified.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.2.5	Investigate techniques for identifying nest predators	Ongoing Current	Prior to FY 1995		Research Institutions, Land Management Agencies and Organizations	Management: Predator and Competitor Control	Internal Technical Assistance, Species Expert	Total cost is not yet determined.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	2	4.3.1	Improve methods of monitoring population size	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations	Research: Demographic Studies	Internal Technical Assistance, Species Expert	Dependent on costs of intensive monitoring of some sites
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	2	4.3.2	Develop sampling methods for annually estimating reproductive success	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions	Research: Demographic Studies	Internal Technical Assistance, Species Expert	Assumes time to compile and review data and develop methodology
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.3.3	Develop methods to monitor plover survival rates	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations	Research: Demographic Studies	Internal Technical Assistance, Species Expert	Total cost is not yet determined.



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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.4.1	Identify brood habitat and map brood home ranges.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations, Cities, Counties, Private Landowners (except HARD, MPOSD & TNC)	Research: Demographic Studies	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs dependent on study design. May include radio telemetry.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.4.2	Identify components of high-quality brood rearing habitat	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Land Management Agencies and Organizations, Cities, Counties, Private Landowners (except HARD, MPOSD & TNC)	Research: Dietary Studies	Internal Technical Assistance, Species Expert	Assumes study at 6 geographically representative sites for duration of breeding season.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.4.3	Quantify wintering habitat need along the Pacific coast	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Point Reyes Bird Observatory, U.S. Geological Survey, Biological Resources Division	Management: Planning	Internal Technical Assistance, Species Expert	Assumes study at 6 geographically representative sites during winter months
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.4.4	Identify important migration stop-over habitat	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Land Management Agencies and Organizations	Management: Habitat Maintenance and Manipulation, Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.5	Develop and implement a research program to determine causes of adult mortality	Ongoing Not Current	Prior to FY 1995		Research Institutions, Land Management Agencies and Organizations	Research: Demographic Studies	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Costs dependent on study design

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.6.1	Compile information regarding number and types of banding injuries to plovers	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Point Reyes Bird Observatory, U.S. Geological Survey, Biological Resources Division, Bird Banding Laboratory, USGS Biological Resources Division	Management: Population Monitoring	Internal Technical Assistance, Species Expert	Assumes staff time to develop, distribute and compile information requests.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.6.2	Review compiled information (see 4.6.1) and determine and implement an appropriate course of action.	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, Point Reyes Bird Observatory, U.S. Geological Survey, Biological Resources Division, Bird Banding Laboratory, USGS Biological Resources Division	Management: Population Monitoring	Internal Technical Assistance, Species Expert	Assumes staff time to review compiled information, distribution and coordination with other responsible parties.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.7	Identify effects of oil spills on snowy plover	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, U.S. Geological Survey, Biological Resources Division, Land Management Agencies and Organizations	Research: Environmental Contaminants	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Typical range of cost for study is estimated between \$25,000 and \$100,000
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.8	Monitor levels of environmental contaminants in snowy plovers	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, U.S. Geological Survey, Biological Resources Division, Land Management Agencies and Organizations	Research: Environmental Contaminants	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Depends on number and type of samples. Cost estimate \$700 per sample, but may vary depending on type of contaminant.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	4.9	Design and conduct contaminants studies if monitoring of contaminanats in action 4.8 indicates potential contaminants effects.	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, U.S. Geological Survey, Biological Resources Division, Land Management Agencies and Organizations	Research: Environmental Contaminants	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Depends on number of sites and samples analyzed. Cost estimates for studies range from \$25,000 to \$50,00 per site.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	2	5.1	Develop and implement public information and education programs.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Public Affairs , Land Management Agencies and Organizations	Management: General	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Depends on individual recovery unit strategies. See App. K (Information and Education Plan) for estimates of component expenses.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	5.2	Inform Federal, State and loal planning agencies and local planning departments of threats to breeding and wintering snowy plovers and their habitats.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Oregon Department of Fish and Wildlife, Oregon Department of Land Conservation and Development, California Department of Fish and Game, Land Management Agencies and Organizations, Oregon Parks and Recreation Department, California State Coastal Commission, Cities, Counties, Washington Dept of Fish and Wildlife, Washington Department of Natural Resources, Washington State Parks and Recreation Commission	Management: Planning	Internal Technical Assistance, Species Expert	Total cost is not yet determined.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	5.3	Develop and maintain updated information and education materials on snowy plovers	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Public Affairs , Land Management Agencies and Organizations, Cities, Counties	Management: General	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Incorporate into ongoing management and Actions 3.1 through 3.10. See App K
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	5.4	Alert landowners and beach-goers about access restrictions within snowy plover habitats	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Public Affairs , Land Management Agencies and Organizations, Cities, Counties	Management: General	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Incorporate into ongoing management and Actions 3.1 through 3.10. See App K
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	5.5	Provide trained personnel to facilitate protective measures, provide public education, and respond to emergency situations.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: Identify/Protect Foraging, Breeding and Mig Habitats	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Need to secure funds for volunteer coordinator and staff to train volunteers. Incorporate into Actions 3.1 through 3.10. See App K
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	5.6	Develop protocols for handling sick, displaced, injured, oiled and dead birds or salvaged eggs.	Ongoing Current	Prior to FY 1995		Land Management Agencies and Organizations, Cities, Counties	Management: General	Internal Technical Assistance, Species Expert	Assumes staff time to develop protocol.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	5.7	Establish a distribution system and repository for information and educational materials	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Land Management Agencies and Organizations, Cities, Counties	Management: General	Internal Technical Assistance, Species Expert	Total cost is not yet determined. Incorporate into ongoing management and Actions 3.1 through 3.10. See App K
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	5.8	Establish a reporting and distribution system for annual monitoring data.	Ongoing Not Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division	Management: Population Monitoring	Internal Technical Assistance, Species Expert	Assumes time spent collecting and compiling data.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	2	6.1	Develop and implement a tracking process for the completion of recovery actions and the achievement of delisting criteria.	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Ecological Services Division, California Department of Parks and Recreation, Oregon Department of Fish and Wildlife, U.S. Bureau of Land Management, National Park Service, California Department of Fish and Game, U.S. Forest Service, United States Air Force , United States Marine Corps , Land Management Agencies and Organizations, Oregon Parks and Recreation Department, U.S.; Army, U.S.Army Corps of Engineers, National Aeronautics and Sapce Administration - Ames Research Center, U.S. Navy, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife (includes Realty), Washington Dept of Fish and Wildlife, Washington Department of Natural Resources, Washington State Parks and Recreation Commission	Management: General	Internal Technical Assistance, Species Expert	Assumes staff time to develop and implement tracking process.
Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	6.2	Review progress toward recovery annually	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Land Management Agencies and Organizations	Management: General	Internal Technical Assistance, Species Expert	Assumes staff time to compile and review data.

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Western snowy plover (Charadrius alexandrinus nivosus)	3	6.3	Assess the applicability, value and success of this plan to the recovery of the western snowy plover every 5 years	Ongoing Current	FY 2006			Management: General	Species Expert	Assumes staff time to review every 5 years
Western snowy plover (Charadrius alexandrinus nivosus)	3	6.4	Prepare a delisting package for the Pacific coast population of the western snowy plover	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division	Management: General	Species Expert	
Western snowy plover (Charadrius alexandrinus nivosus)	3	6.5	Prepare and implement a post-delisting monitoring plan	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division	Management: General	Species Expert	Assumes staff time to prepare and implement post-delisting monitoring plan
Western snowy plover (Charadrius alexandrinus nivosus)	1	7	Dedicate sufficient U.S. Fish and Wildlife Service staff for coordination of western snowy plover recovery implementation	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Ecological Services Division	Management: General	Species Expert	Assumes staff time to coordinate recovery implementation
Western snowy plover (Charadrius alexandrinus nivosus)	3	8.1	Develop a joint United States and Mexico effort to protect snowy plover populations and their habitat.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, International Affairs	Management: International Cooperation	Internal Technical Assistance, Species Expert	Total cost is not yet determined.
Western snowy plover (Charadrius alexandrinus nivosus)	3	8.2	Encourage research and monitoring of breeding and wintering snowy plovers in Baja California, Mexico, by universities and authorities of Mexico.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, International Affairs	Management: International Cooperation	Internal Technical Assistance, Species Expert	Total cost is not yet determined.
Western snowy plover (Charadrius alexandrinus nivosus)	3	8.3	Encourage development and implementation of public information and conservation education in Mexico	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, International Affairs, Public Affairs	Management: International Cooperation	Internal Technical Assistance, Species Expert	Total cost is not yet determined.

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Western snowy plover ( <i>Charadrius alexandrinus nivosus</i> )	3	9	Coordinate with other survey, assessment and recovery efforts for the western snowy plover throughout North America	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Ecological Services Division, Research Institutions, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, International Affairs	Management: Population Monitoring	Internal Technical Assistance, Species Expert	Total cost is not yet determined.